Map 37. Nextel SMR Licenses

	SBC	Ameritech
Resold Lines	650,000	635,000
Unbundled Loops	60,000	94,600
Unbundled Switch Ports	343	0
Active Competitors	50+ <sup>2</sup>	50+
Interconnection and Resale Agreements	374	175
Interconnection Trunks	353,000	180,000
Collocation Arrangements	548	450
Wire Centers	173	260
Pending	443	299

Sources: <sup>1</sup>SBC and Ameritech internal information unless otherwise noted. <sup>2</sup>SBC Section 271 applications filed with various state commissions; New Paradigm Resources Group and Connecticut Research, The 1998 CLEC Report: Annual Report on Local Telecommunications Competition, 9th ed. (1998).

ļ	St. Louis	Chicago
Resold Lines	7,439	173,00
Unbundled Loops	0	4,674
Interconnection Trunks	7,670	69,000
Collocation Arrangements	5	137
Wire Centers	2	58
Pending	24	179

AGO Inces  Varies Comm South  Fact Connections  MCLWorldCom  Asyrie  Max-Tel Communications  Recore  Teligent  Tat/TrCG  Tat/T	Resale			Unbundled Elements	Full Facilities	
	ARKANSAS					
Value   South   Fast Connections   McC/WorldCom   Capire   McC/WorldCom   Entergy Hyperion   McC/WorldCom				1 200 unbundled loops	5 900 interconnection trunks	
Assart Connections Max-Tel Communications (Carea Max-Tel Communications Max-Tel Communicati		Fast Connections	MCI/WorldCom			e.snire
SALFONNA   St.						•
S2,000 interconnection trunks   S2,000 interconnection trunks   S2,100 interconnection trunk		Max 101 Communications		T	1 2	
Intermedia Communications   GST & Pacific Lightwave   Teligent   Time Warner   Time				L 53 100 unbundled leens	224 700 interconnection trunks	
Transport   Tran		COT A B. C. Lister	T-1'			MCI/WorldCom
CG						
Correctional Communications   LCT						
MCLWorldCom   WinStar   Morking Assets   Morking Assets   Morth				1	ı ==-	
LI Momentum Telecom PACWEST Sprint MCI/WorldCom PACWEST Sprint MCI/WorldCom MCI/Wor						winstar
161 switch ports   161 switch				NEXILINK	ICG	
Annal   Anna			working Assets	1	{	_
CANSAS 0,000 lines Comm South Assac Connections MCI/WorldCom  MISSOURI 12,500 lines American McDi Model Telephone Comm South Fast Connections MCI/WorldCom  Max-Tel Communications MCI/WorldCom MCI/Worl					1	-
3.300 interconnection trunks   2.500 interconnection trunks		Sprint		MCI/WorldCom		
Comm South   Peist Long Distance Services   Universal Telephone   McI/WorldCom	IANSAS					
McVworldCom	0,300 fines			360 unbundled loops	3,400 interconnection trunks	
### Access Network Communications   McI/WorldCom   Max-Tel Communications   Capire   Max-Tel Communications   Capire   Max-Tel Communications   Capire   Max-Tel Communications   Capire   McI/WorldCom	Comm South	Feist Long Distance Services	Universal Telephone	MCI/WorldCom	e.spire	
### Access Network Communications   McI/WorldCom   Max-Tel Communications   Capire   Max-Tel Communications   Capire   Max-Tel Communications   Capire   Max-Tel Communications   Capire   McI/WorldCom	spire	Max-Tel Communications	Valu-Line of Kansas		MCI/WorldCom	
2,500 lines meritech Communications irich Telecom Fast Connections MCI/WorldCom Joint South Frontier Intermedia  MCI/WorldCom Midwestern Tel Omniplex   MCI/WorldCom MCI/World	ast Connections	MCI/WorldCom		,		
American Foot Communications e.spire Max-Tel Communications MCl/WorldCom Fast Connections MCl/WorldCom Midwestern Tel Omniplex MCl/WorldCom MCl/WorldCom MCl/WorldCom Espire MCl/WorldCom M			<del></del>			
American Telco Communications	22,500 lines			1,600 unbundled loops	12,600 interconnection trunks	
Sirch Telecom   Fast Connections   MCI/WorldCom   MCI/WorldCom   E.spire   MIdwestern Tel		e.spire	Max-Tel Communications			Frontier
Comm South   Frontier   Midwestern Tel   Commiplex			MCI/WorldCom	MCI/WorldCom	Digital Teleport	Intermedia
Dial U.S. Intermedia Omniplex  VEVADA  L.900 lines Nevada Telephone QTel Tel-Link  DOKLAHOMA  21,400 lines Chickasaw Telecom Svcs Dial Tone Savers Dial Tone USA Fast Connections  TEXAS  284,200 lines American Metrocomm American Teleo LGG Time Warner American Teleo LSG MCI/WorldCom  Teleo LSC LOG LSC LOG LSC	Comm South		Midwestern Tel			
NEVADA 1,900 lines Nevada Telephone Shared Communications Tel - Link  DKLAHOMA 21,400 lines Chickasaw Telecom Svcs Dial Tone Svares Dial Tone Svares Dial Tone USA Fast Connections  TEXAS  284,200 lines American Metrocomm American Telco American Telco CS CS Cox Cs. spire MCI/WorldCom  MCI/WorldCom  Dobson Communications/Logix MCI/WorldCom  MCI/WorldCom  AT&T/TCG KMC U.S. Long Distance E.spire  MCI/WorldCom  3,600 unbundled loops MCI/WorldCom  MCI/WorldCom  9,900 interconnection trunks Cox Cox Cox Cs. spire Dobson Communications/Logix MCI/WorldCom  MCI/WorldCom  AT&T/TCG Access Network Services (STS) MCI/WorldCom  American Telco American Telco Time Warner U.S. Long Distance						
3,600 unbundled loops   Cox	NEVADA		<del></del>	· <del></del>		
Nevada Telephone   Tel-Link   MCI/WorldCom   MCI/				2 600 unbundled loops	2 500 interconnection trunks	
QTel Tel-Link  OKLAHOMA  21,400 lines Chickasaw Telecom Svcs Dobson Communications/Logix e.spire w.spire polal Tone USA Fast Connections  TEXAS  284,200 lines American Metrocomm American Teleo ICG KMC AT&T/TCG KMC E.spire MCI/WorldCom  Time Warner U.S. Long Distance E.spire American Metrocomm ACI/WorldCom  MCI/WorldCom  Time Warner U.S. Long Distance  U.S. Long Distance  Time Warner U.S. Long Distance  Time Warner U.S. Long Distance  U.S. Long Distance  Time Warner U.S. Long Distance		Shared Communications				
Discription of the process of the pr	•			WCD Worldcom	WICD WORLDOWN	
1,300 unbundled loops   1,30	<u> </u>	1 CI-LINK		_1		
Chickasaw Telecom Svcs Dobson Communications/Logix e.spire MCI/WorldCom Dial Tone USA Dial Tone USA Dial Tone USA Fast Connections  MCI/WorldCom  MCI/WorldCom  MCI/WorldCom  MCI/WorldCom  Cox Dobson Communications/Logix MCI/WorldCom  MCI/WorldCom  Dobson Communications/Logix MCI/WorldCom  MCI/WorldCom  MCI/WorldCom  Dobson Communications/Logix MCI/WorldCom  MCI/WorldCom  AT&T/TCG ACCSS Network Services (SIS) ACCCSS Network Services (S						
Dial Tone Savers   Connections   Dobson Communications/Logix   MCI/WorldCom    TEXAS   284,200 lines   American Metrocomm   Golden Harbor   Taylor Communications   Time Warner   Conference   Conferenc						
Dial Tone USA Fast Connections  TEXAS  284,200 lines American Metrocomm Golden Harbor Time Warner AT&T/TCG KMC U.S. Long Distance e.spire MCI/WorldCom  WCI/WorldCom  MCI/WorldCom  Time Warner U.S. Long Distance  LS. Long Distance  180 switch ports AT&T/TCG KMC  LS. Long Distance  180 switch ports AT&T/TCG KMC  LS. Long Distance LSD KMC  LSD WinStar  WinStar				MCI/WorldCom	Cox	e.spire
TEXAS  284,200 lines American Metrocomm American Telco AT&T/TCG AT&T/TCG ACCESS Network Services (STS) American Metrocomm American Metrocomm American Telco AT&T/TCG AT&T/TCG ACCESS Network Services (STS) ACCES Network Services (STS) ACCESS Networ	Dial Tone Savers		MCI/WorldCom	1	Dobson Communications/Logix	MCI/WorldCom
American Metrocomm American Telco AT&T/TCG AME/IVORIDA  AMERICAN	Dial Tone USA	Fast Connections			I	
American Metrocomm American Telco American Metrocomm American Telco American Metrocomm American Metrocomm American Metrocomm American Metrocomm American Metrocomm American Metrocomm OpTel American Metrocomm OpTel American Metrocomm OpTel American Metrocomm OpTel American Telco Taylor Communications Time Warner U.S. Long Distance U.S. Long Distance ICG Waller Creek AT&T/TCG KMC	TEXAS					
American Metrocomm American Telco American Metrocomm American Telco American Metrocomm American Telco Taylor Communications Time Warner U.S. Long Distance U.S. Long Distance ICG Waller Creek WinStar AT&T/TCG KMC	284,200 lines	<del></del>		330 unbundled loops	94 400 interconnection trunks	
American Telco ICG Time Warner AT&T/TCG KMC U.S. Long Distance  Spire MCI/WorldCom  Time Warner U.S. Long Distance		Golden Harbor	Taylor Communications			MCI/WorldCom
AT&T/TCG KMC U.S. Long Distance MCI/WorldCom American Telco Taylor Communications Time Warner AT&T/TCG Time Warner U.S. Long Distance e.spire U.S. Long Distance ICG Waller Creek  180 switch ports AT&T/TCG KMC				1		· · · ·
rspire MCI/WorldCom Time Warner AT&T/TCG Time Warner U.S. Long Distance e.spire U.S. Long Distance ICG Waller Creek  180 switch ports AT&T/TCG KMC		=				
U.S. Long Distance  U.S. Long Distance  ICG  Waller Creek  180 switch ports AT&T/TCG  KMC			C.S. Long Distance		l l	
ICG Waller Creek  180 switch ports AT&T/TCG KMC  ICG Waller Creek Kingsgate WinStar		Worldcom				
180 switch ports   Kingsgate   WinStar     AT&T/TCG   KMC				U.S. LONG DISTANCE		Waller Creat
AT&T/TCG KMC				180 switch norte		
						winstar
					NIVIC	

Sources: SBC internal information (data on resold lines, unbundled elements, interconnection trunks). Arkansas: (as of January 1998) Affidavit of Michael L. Montgomery, attached to SBC Arkansas 271 Application (Ark. PUC filed Feb. 24, 1998). California: (as of January 1998) Affidavit of George R. Elizondo, attached to SBC California 271 Application (Cal. PUC filed Mar. 31, 1998). Kansas: (as of January 1998) Testimony of J. Gary Smith, attached to SBC Kansas 271 Application (Kan. PUC filed Feb. 17, 1998). Missouri: (as of March 1998) SBC internal information. Oklahoma: (as of January 1998) Affidavit of George R. Elizondo, attached to SBC California 271 Application (Ok. Corp. Comm. filed Feb. 13, 1998). Texas: (as of January 1998) Affidavit of Michael L. Montgomery, attached to SBC Texas 271 Application (Tex. PUC filed Mar. 2, 1998).

Table 4. Ameritech Local Landline Competitors by State and Method of Entry				
		Unbundled Elements	Full Facilities	
Global Telecom LCI LJSS General MCI/WorldCom McLeod Midcomm Midwestern Millenium Group	Omniplex One Stop Sprint United Communications Ushman USN Communications Wedgewood WinStar	24,000 unbundled loops AT&T/TCG McLeod ICG MCI/WorldCom NEXTLINK	70,000 interconnection trunks AT&T/TCG Coast to Coast Focal Communications Frontier Intermedia	MCI/WorldCom McLeod NEXTLINK WinStar
			1 12 000 :	
Globalcom LCI McLeod	MCI/WorldCom USN Communications US Xchange		AT&T/TCG Focal Communications Frontier Intermedia MCI/WorldCom	McLeod NEXTLINK Time Warner US Xchange
Frontier LCI MCI/WorldCom	Millenium Group Phone Michigan USN Communications	54,000 unbundled loops AT&T/TCG Climax Dakota Services MCl/WorldCom NEXTLINK Phone Michigan TDS Metro	44,000 interconnection trunks AT&T/TCG Climax Coast to Coast	MCI/WorldCom Phone Michigan
Easton Frontier Global Telecom ICG LCI	MCI/WorldCom Millenium Group USN Communications	16,000 unbundled loops ICG MCI/WorldCom NEXTLINK	26,000 interconnection trunks AT&T/TCG Buckeye Telesystem Frontier ICG	MCI/WorldCom NEXTLINK Time Warner
MCI/WorldCom McLeod Midplains Communications Millenium Group Network Recovery	Schneider Communications TDS Metro USN Communications US Xchange WinStar	900 unbundled loops Dakota Services MCI/WorldCom TDS Metro US Xchange	9,000 interconnection trunks AT&T/TCG KMC MCI/WorldCom	TDS Metro Time Warner US Xchange
	Global Telecom LCI LJSS General MCI/WorldCom McLeod Midcomm Midwester Millenium Group  Globalcom LCI McLeod  Frontier LCI MCI/WorldCom  Easton Frontier Global Telecom ICG LCI  MCI/WorldCom McLeod Midplains Communications Millenium Group	Global Telecom LCI LJSS General MCI/WorldCom McLeod Midcomm Midcomm Midcomm Midestern Midlenium Group LCI MCLO MCLO MCLO MCLO MCLO MCLO MCLO MCLO	Global Telecom Omniplex AT&T/TCG LCI One Stop McLeod LJSS General Sprint United Communications McLeod Ushman USN Communications Wedgewood WinStar  Globalcom USN Communications Wedgewood WinStar  Globalcom USN Communications USN Communication	Global Telecom Omniplex One Stop Sprint United Communications United Communications McLeod United Communications United Co

Table 5. Local Resellers in St. Louis (7,439 resold lines)
Ameritech Communications
Birch Telecom
Fast Connections
Frontier
Intermedia
Max-Tel Communications
MCI/WorldCom
Midwestern Tel
Omniplex
Source: SBC internal information.

Table 6. Local Resellers in Chicago (173,000 resold lines)
1-Point
AT&T/TCG
Caltech Communications
Cimco Communications
Frontier
Globalcom
Global Telecom
LCI
Millenium Group
MCI/WorldCom
Omniplex
USN Communications
WinStar
Source: Ameritech internal information.

•

Table 7. Competitive Landline Switches in SBC's Region <sup>1</sup>				
Allegiance Telecom	4	IWL Connect	2	
ALLTEL	2	Justice Technology	1	
AT&T/TCG	90	Kin Network	3	
Austin Bestline	1	KMC	2	
Birch Telecom	1	Level 3	5	
Connect Communications	1	Linkatel	1	
CoServ	5	Mark Twain Communications	3	
Cox	3	MCI/WorldCom	82	
Cypress	1	MediaOne	9	
Digital Teleport	1	MGC Communications	25	
Dobson	6	Multimedia Hyperion	1	
Dunn & Associates	1	Multitechnology Services	3	
ELI	1	NEXTLINK	10	
Entergy Hyperion	1	North County Communications	1	
e.spire	14	Nortex	1	
Fiber Wave Telecom	2	OpTel	3	
Fibrcom	1	PACWEST	30	
FirstWorld	29	Phoenix Fiberlink	1	
Focal Communications	1	Pioneer Long Distance	5	
Frontier	2	S&T Communications	1	
Geotek	4	Taylor Communications	4	
Golden Harbor	27	Teligent	10	
Great West Services	2	Time Warner	4	
GST	16	Total Communications	2	
GTE (as a CLEC)	13	U.S. Long Distance	1	
Hyperion Telecom	1	W.T. Services	1	
ICG	36	WinStar	18	
Intermedia	6	XIT Tel & Tech	2	
		Total: 56 Companies	503	

The LERG is based on information that is provided to Bellcore by incumbent and competitive local carriers. LERG switch counts do not always agree with counts from other sources, including public statements by the carriers themselves. Some of these discrepancies are due to the blurring of definitional lines between switching entities and rate centers. The bright line that once distinguished central office switches from other switching equipment has been fading as a new generation of remote switches and remote digital terminals (RDTs) have emerged with limited switching capabilities. Data shown here include all switches designated as "local" and as "CLEC" or "CAP" in the LERG.

Source: Bellcore LERG (July 1998).

Table 8.  Competitive Landline Switches in Ameritech's Region <sup>1</sup>				
21st Century	ī			
Allegiance Telecom	1			
AT&T/TCG	68			
Buckeye Telesystem	1			
Coast to Coast Communications	3			
Focal Communications	1			
Frontier	2			
ICG	5			
Intermedia	4			
KMC	1			
Level 3	2			
MCI/WorldCom	33			
McLeod	7			
MGC Communications	1.			
NEXTLINK	7			
Phone Michigan	2			
TDS Metrocom	. 2			
Teligent	2			
Time Warner	4			
US Xchange	6			
WinStar	4			
Total: 21 Companies	157			

<sup>1</sup>The LERG is based on information that is provided to Bellcore by incumbent and competitive local carriers. LERG switch counts do not always agree with counts from other sources, including public statements by the carriers themselves. Some of these discrepancies are due to the blurring of definitional lines between switching entities and rate centers. The bright line that once distinguished central office switches from other switching equipment has been fading as a new generation of remote switches and remote digital terminals (RDTs) have emerged with limited switching capabilities. Ameritech internal data, for example, indicate 124 competitive switches in its region. Data shown here include all switches designated as "local" and as "CLEC" or "CAP" in the LERG.

Sources: Bellcore LERG (July 1998); Ameritech internal data.

Table 9. Competitive Landline Switches in the St. Louis LATA <sup>1</sup>			
AT&T/TCG	7		
Digital Teleport	1		
Intermedia	3		
Mark Twain Communications	2		
MCI/WorldCom	3		
Total	16		
<sup>1</sup> Data include all switches designated as "local" and as "C Source: Bellcore LERG (July 1998).	CLEC" or "CAP" in the LERG.		

Table 10. Competitive Landline Switches in the Chicago LATA <sup>1</sup>			
21st Century	1		
Allegiance Telecom	1		
AT&T/TCG	20		
Focal Communications	1		
Frontier	1		
Intermedia	2		
Level 3	1		
McLeod	1		
MCI/WorldCom	10		
MGC Communications	1		
NEXTLINK	2		
Teligent	1		
WinStar	1		
Total	43		

<sup>1</sup>LERG data include all switches designated as "local" and as "CLEC" or "CAP" in the database. Ameritech internal data indicate 37 competitive switches in the Chicago LATA.

Sources: Bellcore LERG (July 1998); Ameritech internal data.

CLEC	Location	Route Miles	Buildings On-Net	Switches (statewide
ARKANSAS		<del></del>		
ALLTEL	Little Rock	95		2
MCI/WorldCom	Little Rock	21	28	1
Entergy Hyperion	Little Rock	114		1
e.spire	Little Rock	6	14	2
CALIFORNIA	Simo Rook			
Allegiance Telecom	PLANNED: Los Angeles (1998), San			11
•	Francisco (1998), Orange County (1999)			1
AT&T/TCG/TCI	San Diego, Anaheim, Los Angeles, San Jose, Oakland, San Francisco, Sacramento	1,077	94 (TCG)	55
Cox	San Diego, Orange County, Santa Barbara, Bakersfield	915		2
ELI	Sacramento, Los Angeles	200		1
FirstWorld	Anaheim	110	-	29
Focal Communications	San Jose, Oakland, San Francisco	<del>  •••</del>		<del>- </del>
GST	Riverside, Los Angeles, San Luis Obispo,			15
331	Fresno, San Francisco, Walnut Creek			) 13
GTE (as a CLEC)	Los Angeles			3
ICG	San Diego, Anaheim, Los Angeles, San Jose, San Francisco, Sacramento	1,538		36
Lovel 2	San Francisco	<u> </u>	<del></del>	3
Level 3 Linkatel		<del> </del>	<del></del>	<del></del>
	Anaheim	773		1 51
MCI/WorldCom	San Diego, Los Angeles, Orange County, Bakersfield, Fresno, San Jose, Santa Clara, Sunnyvale, Milpitas, Palo Alto, Oakland, San Francisco, Stockton, Sacramento	//3		51
MediaOne	PLANNED: Anaheim, Fresno, Long Beach, Los Angeles, Santa Monica			12
MGC Communications	Los Angeles, Ontario			
mod communications	PLANNED: San Diego, Palm Springs, Orange County, San Francisco			25
NEXTLINK	South San Francisco Bay	50		13
NEXTLINK	Los Angeles, Orange County, Santa Ana	248	6	— 13
PACWEST	Los Angeles, Orange County, Santa Ana	240	+0	30
	Son Diago			
Time Warner WinStar	San Diego Los Angeles, San Diego, San Francisco			12
	Los Angeles, San Diego, San Francisco	l		12
KANSAS			Too.	
AT&T/TCG	Kansas City	611	205	1
Birch Telecom	PLANNED: Dodge City, Emporia, Garden City, Hutchinson, Kansas City, Lawrence, Manhattan, Salina, Topeka, Wichita			
e.spire	Kansas City, Johnson County	33		3
MCI/WorldCom	Kansas City	42		2
Multimedia Hyperion	Wichita	130		1
MISSOURI		L		
AT&T/TCG	St. Louis	203	72	14
AICHICU	Kansas City	203	12	<b></b>   <b>→</b>
Birch Telecom			5	<del></del>
DITCH Telecom	PLANNED: St. Joseph		13	1
D:-:1.T-1	PLANNED: St. Louis, Kansas City	470	+=-	
Digital Teleport	Columbia, Fulton, Jefferson City, St. Louis	470	76	1
	Mexico	5		
e.spire	Kansas City	5		2
Intermedia	Chesterfield, Manchester, St. Louis			3
MCI/WorldCom	Kansas City, Springfield	68		5
	St. Louis		38	ļ

CLEC	Location	Route Miles	Buildings On-Net	Switches (statewide)
WinStar	PLANNED: St. Louis			1
NEVADA				
MCI/WorldCom	Reno	32	33	1
OKLAHOMA		<del></del>	<del></del>	·
Cox	Oklahoma City	120	38	1
Dobson Communications	Oklahoma City	400		4
e.spire	Tulsa	2		1
MCI/WorldCom	Oklahoma City, Tulsa	265	122	3
TEXAS				<del></del>
Allegiance Telecom	PLANNED: Dallas (1998), Ft. Worth (1998)			3
American Telco	Houston			
AT&T/TCG	Austin, Dallas/Ft. Worth, Houston	708	230	13
Cypress	Houston			1
e.spire	Austin, Corpus Christi, El Paso, Dallas/Ft. Worth	207	55	8
Fibrcom	San Antonio			1
Frontier	Dallas			1
Geotek	San Antonio			4
GST	PLANNED: Dallas, Houston, El Paso			1
Golden Harbor				27
ICG	Austin, Corpus Christi, Dallas, San Antonio	260		7
Intermedia	Dallas, Houston			. 3
Kingsgate				
KMC	Corpus Christi	34	5	1
Level 3	Dallas, Houston	·		2
MCI/WorldCom	Austin, Corpus Christi, Dallas, Ft. Worth, Houston, San Antonio, Waco	693	186 (MFS) 125 (Brooks)	19
	El Paso			
OpTel	Houston	400	35	5
Taylor Communications	Austin, Dallas, Houston, San Antonio	ļ		4
Teligent	PLANNED: Austin, Dallas/Ft. Worth, El		tati	5
	Paso, Houston, San Antonio		<del>-   </del>	1
Time Warner	Austin, Houston, San Antonio	700	74	2
U.S. Long Distance	Houston, San Antonio, Waco	<u> </u>		1
WinStar	Dallas/Ft. Worth			5
	PLANNED: Houston (1998)	<u> </u>	<u>. I </u>	

Sources: All switch figures are taken from the Bellcore LERG (July 1998) database. The LERG is based on information that is provided to Bellcore by incumbent and competitive local carriers. LERG switch counts do not always agree with counts from other sources, including public statements by the carriers themselves. Some of these discrepancies are due to the blurring of definitional lines between switching entities and rate centers. The bright line that once distinguished central office switches from other switching equipment has been fading as a new generation of remote switches and remote digital terminals (RDTs) have emerged with limited switching capabilities. Data shown here include all switches designated as "local" and as "CLEC" or "CAP" in the database. Arkansas – New Paradigm Resources Group and Connecticut Research, The 1998 CLEC Report: Annual Report on Local Telecommunications Competition, 9th ed. (1998) ("Connecticut Research") (e. spire); Affidavit of Michael L. Montgomery, attached to SBC Arkansas 271 Application (Ark. PUC filed Feb. 24, 1998) (ALLTEL, Entergy Hyperion, MCI/WorldCom). Catifornia – Connecticut Research (Allegiance, Focal Comm., GST, ICG, Level 3, MediaOne, MGC Comm., NEXTLINK); Affidavit of George R. Elizondo, attached to SBC California 271 Application, (Cal. PUC filed Mar. 31, 1998) (AT&T/TCG/TCI, Cox. ELI, FirstWorld, ICG, MCI/WorldCom); Testimony of J. Gary Smith, attached to SBC Kansas 271 Application (Kan. Corp. Comm. filed Feb. 17, 1998) (AT&T/TCG, e.spire, MHT). Missouri – Connecticut Research. Nevada – Connecticut Research Oklahoma – Affidavit of George R. Elizondo, attached to SBC Oklahoma 271 Application. Texas – Connecticut Research (Allegiance, KMC, WinStar); Affidavit of Michael L. Montgomery, attached to SBC Texas 271 Application (Tex. PUC filed Mar. 2, 1998) (American Telco, AT&T/TCG, e.spire, ICG, Golden Harbor, Kingsgate, KMC, McI/WorldCom, OpTel, Taylor Comm., Time Warner, U.S. Long Distance, WinStar).

CLEC	Location	Route Miles	Buildings On-Net	Switches (statewid
ILLINOIS			·	<u> </u>
21st Century	UNDER CONSTRUCTION: Chicago			1
	(1998)			
Allegiance Telecom	PLANNED: Chicago (1998)			1
AT&T/TCG	Chicago	750+	200	29
e.spire	PLANNED: Chicago			
Focal Communications	Chicago			1
Frontier	Chicago			1
Intermedia	Chicago			2
Level 3	Chicago	<del>-  </del>		1
MCI/WorldCom	Chicago	230	35-40 (MCI) 250 (MFS)	10
McLeod <sup>1</sup>	Mattoon (including Champaign, Decatur,	1,200		1
	Peoria, and Springfield markets)	1,2		
	PLANNED: Rockford			
MFN	PLANNED: Chicago	50		<del>                                     </del>
MGC Communications	PLANNED: Chicago		1	+
NEXTLINK	Chicago	40	25+	2
QST Communications	Peoria	104		+
201 Communications	PLANNED: Bartonville, Pekin,	104	<del></del>	+
	Springfield (1998)			
Teligent	PLANNED: Chicago			1.
WinStar	Chicago		30	1 1
W motal	Cintago		(100 by YE98)	1
INDIANA				
AT&T/TCG	Indianapolis (including Fishers, Carmel,	199	100-200	3
	and Greenwood)			]
	Gary			
Intermedia	Indianapolis			1
McLeod	PLANNED: Indianapolis			2
MCI/WorldCom	Indianapolis	160	. 35	4
Teligent	PLANNED: Indianapolis			
Time Warner	Indianapolis	300	150	1
US Xchange	PLANNED: Southbend, Elkhart, Ft.	230	43	1
2	Wayne, Bloomington, Evansville,			ŀ
	Lafayette, Kokomo, Marion (1998)			
WinStar	PLANNED (5 channel-capacity - 500			
	MHz)			
MICHIGAN		<del></del>		
AT&T/TCG	Detroit	300	50	12
BRE Communications	Flint	228	80	2
dba Phone Michigan	PLANNED: Bay City, Midland, Saginaw	78		1 -
	PLANNED: Fenton, Flushing, Grand	T -		1
	Blanc, Holly, Lapier, Marine City, New			
	Baltimore, Port Huron, and St. Clair			
Climax	Battle Creek/Kalamazoo	10		<del> </del>
Coast to Coast	PLANNED: Ann Arbor, Detroit, Flint,	10		<del>                                     </del>
Coust to Coust	Grand Rapids, Lansing, Livonia, Oakland County, Port Huron, Troy			
Level 3	Detroit Detroit			1
<b>₽</b> ₽ 6 4 £ 1 ⊃		180 210	16 (MCD)	12
MCI/WashiCam	Detroit	180-210	16 (MCI)	12
MCI/WorldCom	· I	T .	116 106 /1400	
MCI/WorldCom	Court Parish	200	115-125 (MFS)	
MCI/WorldCom	Grand Rapids Lansing	300 55	115-125 (MFS) 400 55	

CLEC	Location	Route Miles	Buildings On-Net	Switches (statewide	
WinStar	PLANNED: Detroit (1998-1999)			ì	
	(600 MHz bandwidth coverage includes				
	Battle Creek, Grand Rapids, Lansing, and				
ОНІО	Saginaw)	<u> </u>			
AT&T/TCG	Classical	1116	125	1.5	
Al&1/ICG	Cleveland	146	35	17	
	PLANNED: Columbus	<b></b>			
Cablevision Lightpath	PLANNED: Cleveland (1998)				
Frontier	Cleveland			1	
ICG	Columbus, Dayton, Ohio intercity facilities	431		5	
	Cleveland/Akron	170-220	52		
MCI/WorldCom	Cleveland, Toledo	105	35 (MCI) 30 (MFS)	6	
			5 (Brooks)		
NEXTLINK	Cleveland, Akron, Columbus	400	13+	6	
Time Warner	Columbus	500	90+	2	
WinStar	Columbus			1	
	PLANNED: Cleveland (1998-1999)				
WISCONSIN					
AT&T/TCG	Milwaukee	250	40	5	
KMC	Madison/Middletown	32	20	1	
MCI/WorldCom	Milwaukee 20+ 7+		1		
McLeod	PLANNED: Madison, Green Bay,				
•	Milwaukee				
TDS Metro	Madison	60		2	
	PLANNED: Appleton, Green Bay (1998)			$\neg$	
Teligent	PLANNED: Milwaukee			1	
Time Warner	Milwaukee	250-350	120	1	
US Xchange	Appleton, Neenah, Osh Kosh	26	6	5	
•	PLANNED: De Pere, Green Bay,	161	17	7	
	Madison, Milwaukee				
WinStar	Milwaukee			1	

Includes interexchange facilities.

Sources: All switch figures are taken from the Bellcore LERG (July 1998) database. The LERG is based on information that is provided to Bellcore by incumbent and competitive local carriers. LERG switch counts do not always agree with counts from other sources, including public statements by the carriers themselves. Some of these discrepancies are due to the blurring of definitional lines between switching entities and rate centers. The bright line that once distinguished central office switches from other switching equipment has been fading as a new generation of remote switches and remote digital terminals (RDTs) have emerged with limited switching capabilities. Data shown here include all switches designated as "local" and as "CLEC" or "CAP" in the database. Illinois – New Paradigm Resources Group and Connecticut Research, The 1998 CLEC Report: Annual Report on Local Telecommunications Competition, 9th ed. (1998) ("Connecticut Research") (21st Century, Allegiance, e.spire, Focal Comm., Intermedia, McLeod, MFN, MGC Comm., QST, Teligent); Initial Brief of Ameritech Illinois at fn. 11, Investigation Concerning Illinois Bell Telephone Company's Compliance with Section 271(c) of the Telecommunications Act of 1996, No. 96-0404 (Ill. Commerce Commission filed Feb. 5, 1998) (MFS); S. Levine, TCI Turns on Telephony in Chicago, Telephony, Jan. 20, 1997 (TCI); Quality Strategies, Ameritech CAP/CLEC Network Descriptions, First Quarter 1998, Apr. 15, 1998 ("Quality Strategies") (AT&T/TCG, MCI/WorldCom, McLeod, NEXTLINK, WinStar); Plaigent Press Release, Teligent Reports First Quarter Financial Results, May 12, 1998 (Teligent). Indiana – Connecticut Research (AT&T/TCG, MCI/WorldCom, Dio – Connecticut Research (BRE, Climax, Coast to Coast, MCI/WorldCom, Teligent, WinStar); Quality Strategies (AT&T/TCG, MCI/WorldCom, Dio – Connecticut Research (BRE, Climax, Coast to Coast, MCI/WorldCom, Teligent, WinStar); Quality Strategies (AT&T/TCG, MCI/WorldCom, NEXTLINK, Time Warner). Wisconsin – Connecticut Research (KMC, McLeod, TDS,

State	Cable Operator	n SBC and Ameritech Regions
Arkansas California	Conway Corp.  Avenue Cable TV	Ventura
California	Charter Communications	
		Riverside, Pasadena
	Coast Cablevision	San Mateo
	Cox	Orange County, San Diego
	Daniels Cablevision	Encinitas
	GTE	Ventura
	Horizon Cable	Point Reyes
	MediaOne	Los Angeles
	Palo Alto Cable Co-Op	Palo Alto
	Ponderosa Cable	Danville
	San Bruno Municipal Cable	San Bruno
	TCI	Fremont, Castro Valley, Sunnyvale
	Time Warner	San Diego
Illinois	21st Century	Chicago
	MediaOne	Chicago
	TCI	Arlington Heights
	Wedgewood	Chicago
Indiana	Insight Communications (test)	Indianapolis
Michigan	Bresnan Communications	Iron Mountain, Escanaba, Houghton
	Comcast	Detroit
	Horizon Cable	Central Michigan
	MediaOne	Ann Arbor, Suburban Detroit
	TCI	East Lansing
Missouri	Charter Communications (test)	St. Louis
Ohio	Adelphia	Western Reserve, Macedonia
	Coaxial Communications	Columbus
	Fanch Communications	Bowling Green
	Time Warner	Akron, Canton, Columbus, Youngstown
Oklahoma	CommuniComm Services	Durant
Texas	Cablevision of Lake Travis	Lake Travis
	TCA Cable (test)	Amarillo
	Time Warner	El Paso
Wisconsin	Marcus Cable (test)	Eau Claire

Sources: Cable Datacom News, Commercial Cable Modem Launches in North America, at http://cabledatacomnews.com/cmic7.htm (July 1, 1998); Cable Datacom News, Select Cable Modem Market Trials in North America, at http://cabledatacomnews.com/cmic8.htm (June 20, 1998); Ameritech internal data.

Table 14. Resources of Major Global Players						
Company	Revenues <sup>1</sup> (in \$ billions)	Access Lines <sup>2</sup> (in millions)				
SBC/Ameritech	43	56				
AT&T's WorldPartners	141	226 <sup>3</sup>				
Sprint's Global One	89	89				
MCI/WorldCom	27	28				
Unisource <sup>4</sup>	26	18				
	<b>CONTRACTOR CONTRACTOR</b>	AND				
NTT (Japan)	71	61				
Deutsche Telekom	41	44				
France Telecom	26	34				
British Telecom	26	28				
Telecom Italia	25	25				

<sup>1</sup>Revenues for alliances (WorldPartners – 1996, Global One – 1995, Unisource – 1995) are totals of parent companies.

<sup>2</sup>Figures for MCI/WorldCom are based on presubscribed long-distance access lines. Figures for global alliance access lines include local access lines or, where applicable, presubscribed access lines of alliance partners. <sup>3</sup>Figures for KDD and CAT are not available. <sup>4</sup>Unisource is also part of the WorldPartners alliance.

CAT are not available: "Unisource is also part of the WorldPartners alliance.

Sources: WorldPartners: 1996 annual reports (Ar&T); 1997 annual reports (Indosas, PLDT, Telecom New Zealand,
Telkom South Africa); 1998 annual reports (Hong Kong Telecom, Telecom New Zealand); G. Staple, ed., TeleGeography
1997-98 at 94 (1997) (KDD, Singapore Telecom, Telstra, Hong Kong Telecom, Bezeq International, Telekom Malaysia,
Telebras, VSNL); S. Pique, et. ad., Bear, Stearns & Co., Inc., Rpt. No. 2648757, Latin American Conglomerates – Industry
Report, at \*64 (Mar. 30, 1998) (Alestra, based on estimated 1996 revenue); Dun & Bradstreet, Business Information
Report, Korea Telecommunication Authority, DUNS No. 68-777-880 (July 20, 1998) (Korea Telecom); Dun &
Bradstreet, Business Report, Communications Authority of Thailand, DUNS No. 65-974-7836 (Sept. 1997) (CAT);
Taiwan Regulations: Cap on Foreign Equity in Telecoms to Rise, EIU ViewsWire, Aug. 6, 1997 (CHT-), FCC, Long
Distance Market Shawas, First Quarter 1998, at Table 2.1 (June 1998) ("Long Distance Market Shawas") (AT&T, Sprint);
M. Miller, Socgen-Croeby Socurities Pte., Ltd, Rpt. No. 2669067, Singapore Telecom – Company Report, at \*6 (June 1, 1998) (Singapore Telecom); OBCD, Communications Outlook 1997, Vol. 1, at Table 1.1 (1997) (PTT Netherlands, Telia,
Swiss PTT, Telstra); Korea Telecom, Strengths, at http://www.kt.co.kr/english/company/majorwork\_right1.htm (Korea
Telecom); Barclays de Zoete Wedd Securities, Rpt. No. 1776127, Bezeq Telecom – Company Report (Aug. 8, 1996)
(Bezeq); J. Chessher, Schroder Securities (Asia), Ltd., Rpt. No. 2616348, Taiwanese Telecoms' Murky Deregulation –
Industry Report, at \*5 (Nov. 1, 1997) (CHT lines); M. Shuper, et al., Morgan Stanley, Dean Witter, Rpt. No. 2573288,
Telekom Malaysia – Company Report, at \*2 (Aug. 6, 1997) (Telecom Malaysia); L. Zurlo, et al., Credit Suisse First
Boston Corp., Rpt. No. 3313101, Telecom/Updated Latin American Models/Valuations – Industry Report, at \*6 (Dec. 9, 1997) (Telecom/Updated Latin American Models/

State	Cable Operator	Area
Arkansas	Conway Corp.	Conway
California	Avenue Cable TV	Ventura
	Charter Communications	Riverside, Pasadena
	Coast Cablevision	San Mateo
	Cox	Orange County, San Diego
	Daniels Cablevision	Encinitas
	GTE	Ventura
	Horizon Cable	Point Reyes
	MediaOne	Los Angeles
	Palo Alto Cable Co-Op	Palo Alto
	Ponderosa Cable	Danville
	San Bruno Municipal Cable	San Bruno
	TCI	Fremont, Castro Valley, Sunnyvale
	Time Warner	San Diego
Illinois	21st Century	Chicago
	MediaOne	Chicago
	TCI	Arlington Heights
	Wedgewood	Chicago
Indiana	Insight Communications (test)	Indianapolis
Michigan	Bresnan Communications	Iron Mountain, Escanaba, Houghton
_	Comcast	Detroit
	Horizon Cable	Central Michigan
	MediaOne	Ann Arbor, Suburban Detroit
	TCI	East Lansing
Missouri	Charter Communications (test)	St. Louis
Ohio	Adelphia	Western Reserve, Macedonia
	Coaxial Communications	Columbus
	Fanch Communications	Bowling Green
	Time Warner	Akron, Canton, Columbus, Youngstown
Oklahoma	CommuniComm Services	Durant
Texas	Cablevision of Lake Travis	Lake Travis
	TCA Cable (test)	Amarillo
	Time Warner	El Paso
Wisconsin	Marcus Cable (test)	Eau Claire

Sources: Cable Datacom News, Commercial Cable Modem Launches in North America, at http://cabledatacomnews.com/cmic7.htm (July 1, 1998); Cable Datacom News, Select Cable Modem Market Trials in North America, at http://cabledatacomnews.com/cmic8.htm (June 20, 1998); Ameritech internal data.

Country	SBC Investment (services provided)	Ameritech Investment (services provided)
Europe/Middle Ea	st	
Belgium		Belgacom (17.5 percent) local, long-distance, wireless, directory, security services
Denmark		TeleDanmark (41.6 percent)  local, long-distance, wireless, cable, directory, security services
France	Cegetel (15 percent)  local, long-distance, wireless  Societe Française de Radiotelephone (10 percent)  wireless	
Germany		WLW (100 percent) business-to-business advertising
Hungary		MATAV (29.8 percent) local, long-distance, wireless, cable, directory
Israel	AUREC Group (50 percent)  AMDOCS (23.4 percent) long distance consortium (22 percent) cable, publishing, billing and customer service software, long distance	
Norway		NetCom (19.7 percent) wireless
Switzerland	diAX (40 percent) local, long-distance	
U.K.	TeleWest (15 percent) cable	
Central/South Am	erica	
Chile	VTR (44.1 percent) local, long-distance, wireless, cable	
Mexico	Teléfonos de México (9.6 percent)  local, long-distance, wireless	
Asia/Pacific		
South Korea	Shinsegi Mobile (7.8 percent) wireless	
Taiwan	TransAsia Telecommunications (20 percent) wireless	
Africa		
South Africa	MTN of South Africa wireless Telkom SA (18 percent) local, long-distance, wireless	

	Table 10. III	ternational Investmen		
Company		Mark	····	
	Europe/Middle East	Central/South America	Asia/Pacific	Other
SBC/Ameritech	<ul> <li>Belgium (Belgacom)</li> <li>Denmark (TeleDanmark)</li> <li>France* (CEGETEL, Societe Francaise de Radiotelephone)</li> <li>Germany* (WLW)</li> <li>Hungary (MATAV)</li> <li>Israel (incl. AUREC, AMDOCS)</li> <li>Italy*</li> <li>Norway (NetCom)</li> <li>Spain*</li> <li>Switzerland (diAX)</li> <li>U.K.* (TeleWest)</li> </ul>	Brazil*     Chile (VTR S.A.)     Mexico (Teléfonos de México)	<ul> <li>Australia*</li> <li>Hong Kong*</li> <li>Japan*</li> <li>Singapore*</li> <li>South Korea (Shinsegi Mobile)</li> <li>Taiwan (TransAsia Telecom)</li> </ul>	South Africa (MTN of South Africa, Telkon SA)
AT&T's	Israel (Bezeg International)	Brazil (Telebras)	Australia (Telstra)	Canada (AT&T Cana
World Partners	Netherlands (PTT Telecom)     Sweden (Telia)     Switzerland (Swiss PTT)	Mexico (Alestra)	<ul> <li>Australia (Teistra)</li> <li>Hong Kong (Hong Kong Telecom)</li> <li>India (VSNL)</li> <li>Indonesia (Indosat)</li> <li>Japan (KDD)</li> <li>Malaysia (Telekom Malaysia)</li> <li>New Zealand (TCNZ)</li> <li>Philippines (PLDT)</li> <li>Singapore (Singapore Telecom)</li> <li>South Korea (Korea Telecom)</li> <li>Taiwan (CHT-I)</li> <li>Thailand (CAT)</li> </ul>	South Africa (Telkon SA)
WorldCom/MCI	Belgium France Germany Ireland Italy Netherlands Portugal (Telefónica) Spain (Telefónica) Sweden Switzerland U.K.	Argentina (Telefónica)     Belize (Belize Telecom)     Brazil (Telefónica)     Chile (Telefónica)     Mexico (Avantel)     Peru (Telefónica)	Australia     Hong Kong     Japan     New Zealand (CLEAR)     Singapore     South Korea	Canada (Stentor)
Sprint's Global One	France (France Telecom) Germany (Deutsche Telekom)			
Cable & Wireless	Belgium Bulgaria (MOBIKOM) France (Bouygues Telecom) Ireland Italy Latvia (Lattelekom) Portugal (Eastecnica) Russia (Nakhodka Telecom, PLD, SakhalinSviaz, Sakhalin Telecom, ST Mobile) Spain Switzerland U.K. (Flexible Resource, One 2 One, Petersburg Long Distance)	Anguilla     Antigua & Barbuda     Ascension Islands     Barbados (Barbados Communication Services, Barbados External Telecom, Barbados Tel., Digital Information Sys.)     Bermuda     British Virgin Islands     Cayman Islands     Dominica     Falkland Islands     Grenada (Grentel)     Jamaica (Jamaica Digiport International)     Montserrat     Panama     St. Helena     St. Kitts and Nevis (SKANTEL)     St. Lucia     St. Vincent & the Grenadines     Trinidad & Tobago (TSTT)     Turks & Caicos	Australia (Optus)     China     Fiji (Fintel)     Hong Kong (Asia Satellite Telecom, Hong Kong Telecom)     India     Indonesia (PT Daya Mitra Malindo)     Japan (IDC)     Korea     Macau (CTM)     Pakistan (Paktel)     Philippines (ETPI, Oceanic Wireless Network)     Singapore (Mobile One)     Solomon Islands (Solomon Islands Telekom)     Taiwan     Thailand (Compunet)     Tonga     Vanuatu (Telecom Vanuatu)     Vietnam	Bahrain (Batelco) Diego Garcia Lebanon Maldives (DHIRAAG South Africa (M-TEL MTN) Seychelles Yemen (Teleyemen)
Unisource	Netherlands (PTT Telecom) Sweden (Telia) Switzerland (Swiss PTT)			

\*Markets targeted by SBC/Ameritech Business Plan. Sources: SBC/Ameritech: SBC Investor Briefing, May 11, 1998; SBC/Ameritech Business Plan; SBC 1997 Annual Report; SBC, About SBC: International Operations, at http://www.sbc.co

About/international.html; Ameritech internal information. WorldPartners: WorldPartners Release, First African Carrier Joins WorldPartners Association, May 8, 1998. MCI/WorldCo WorldCom Press Release, Telefonica Partners with WorldCom and MCI, Mar. 9, 1998; International Telecommunication Union, World Telecommunication Development Report, 1996/1997 at Table 3.4 (1997); WorldCom Press Release, Combined Company Fact Sheet, www.wcom.com/press/111097\_2.html. Global One, Key Facts About Global One, at http://www.global-one.net/en/press/facts.html. Cable & Wireless: Cable & Wireless, Businesses by Region, at http://www.cwplc.com/business/nonjava.htm. Unisource: Unisource Press Release, Unisource and Telefonica Agree Terms for Termination, Dec. 15, 1997.

Company	Number of SBC's	Number of SBC's	nitment to Provide Competitive Local Service
Сошрану	30 Out-of-Region MSAs Served	Top 20 In-Region MSAs Served	Comments
SBC/Ameritech	30	20	<ul> <li>Will provide business and residential service to 30 out-of-region markets, all of which are in the top 55 Metropolitan Statistical Areas (MSA).</li> <li>Plans to begin offering business service in 1999 and residential service in 2000.</li> </ul>
AT&T/TCG/TCI	22	14	<ul> <li>Operates networks within 40 different MSAs.</li> <li>AT&amp;T has abandoned the provision of nationwide local service although is acquisition of TCI may alter these plans.</li> <li>TCI provides local service in California, Connecticut and Illinois¹.</li> </ul>
MCI/WorldCom	23	19	<ul> <li>WorldCom, MCI, MFS and Brooks Fiber combined operate networks in 60 different MSAs.</li> <li>WorldCom has 12 more networks planned or under construction.</li> <li>WorldCom plans to operate as a local wholesaler of business service</li> <li>MCI has scaled back its plans to enter local markets</li> </ul>
Sprint	0	0	<ul> <li>Sprint recently announced the launch of its Integrated On-Demand Networ (ION). An initial roll out to large businesses will begin later this year. The service will be generally available to businesses in mid-1999, with consumer availability late in 1999.</li> <li>Sprint will build its own broadband networks in 36 major markets in 1998 and 24 additional markets in 1999. These networks will allow Sprint ION to pass 70 percent of all large businesses nationwide. To serve small business and residential customers who may not have access to these networks, Sprint will lease broadband facilities, such as DSL, from other carriers.<sup>2</sup></li> </ul>
Bell Atlantic	0	0	Bell Atlantic does not offer out-of-region local service.
GTE	0	1	<ul> <li>In March 1997, GTE announced that it would begin offering Internet service in 60 markets outside of its region.<sup>3</sup></li> <li>GTE intends to become a "leading national provider of telecommunications service," offering a bundle of local, long distance, Internet, and wireless services over an advanced data networe GTE has CLEC approval in 9 states.<sup>4</sup></li> </ul>
BellSouth	ı	0	<ul> <li>BellSouth competes with Sprint in Orlando, FL, and the company has been approved to provide local service to an out-of-region section of Florida and in Indiana.</li> <li>BellSouth, through its subsidiary BellSouth BSE, is seeking approval to become a CLEC in eight states.</li> </ul>
U S West	0	0	<ul> <li>U S West has approval to offer local service in 36 states and plans to begin offering service this year.<sup>5</sup></li> </ul>
Time Warner	6	5	Time Warner offers CLEC service to business customers in 19 cities.
Other Cable Provides	No CLEC serves more than 7	No CLEC serves more than 11	<ul> <li>Market reach varies among the top independent CLECs, although none serve more than 17 o the top 55 MSAs.</li> <li>Intermedia serves just 10 MSAs, none of which are in the top 10. Intermedia's networks are scattered across cities in the southeastern United States, and the company resells local servici in cities along the east coast.</li> <li>ICG serves 19 MSAs, 3 of which are in the top 10. The company prides itself on its regional network "clusters" and calls itself "a leading regional CLEC."<sup>6</sup></li> <li>McLeodUSA's networks are currently in 9 of the 14 Midwest and Rocky Mountain states it plans to enter.</li> <li>GST serves the western United States including Hawaii and parts of Arizona, California, Idaho, New Mexico, Texas, and Washington.</li> <li>WinStar serves business customers in 12 of the top 15 MSAs through broadband wireless circuits on the 38 GHz frequency.</li> <li>e.spire operates 32 networks in 28 MSAs. The company's strategy has been "to focus on second-tier southern cities, leaving the big cities to AT&amp;T Corp., MCI Communications Cor and other giant competitors."</li> <li>Hyperion serves mostly cities in the East and South.</li> </ul>
Other Cable Providers  I. Hall MediaOne Takes of			<ul> <li>Most cable operators have abandoned cable telephony to offer high-speed Internet access instead.</li> <li>Cablevision offers telephony in Long Island, NY and Connecticut.</li> <li>Cox Communications offers telephony in Orange County, CA; Omaha, NE; and Phoenix, AZ</li> <li>MediaOne, which broke its direct ties to US West in June 1998<sup>8</sup>, introduced its local service Atlanta, GA earlier this year and in Los Angeles just recently.</li> </ul>

Atlanta, UA earnier this year and in Los Angeles just recently.

L. Hall, MediaOne Takes on Its Ex-Parent: US West Battle in Minn., Electronic Media, May 25, 1998, at 4. Sprint Press Release, Sprint Unveits Revolutionary Network, June 2, 1998. Masuc GTE Pushes Dial-Up Internet Service, Computer Reseller News, March 17, 1997. Mcokwell, Big Telcos Start Turf Wars - GTE and Bell Companies Invade Each Other's Territories, InternetWeek, Nov. 3, 1997, at 71. US WEST Press Release, US West Poised and Ready To Offer Long Distance; Federal Court Ruling Will Accelerate US WEST Market Entry, Jan. 2, 1998. GIGC Communications, Corporate Info, at http://www.icgcomm.com/telecom/corpinfo/AboutUs.htm, 1998. M. Mills, E.spire Rings Up Sales Against the Bells, Washington Post, May 25, 1998 at F05. MediaOne Press Release, MediaOne Group Becomes Independent Company, June 12, 1998. MediaOne Press Release, MediaOne Begins Deployment of Telephone Service to Single-Famil Homes, Jan. 27, 1998.

	National Commitment to Provide Competitive Residential Local Service
Company	Residential Commitment
SBC/Ameritech	Plans to provide residential service to 30 major out-of-region markets by 2003.
AT&T/TCG/TCI	<ul> <li>The partnership between AT&amp;T and TCG is "primarily focused on the business market."</li> <li>Recently announced plans to first target local service for big business, then small-to-medium sized businesses, then multiple-dwelling units; has expanded local call access for business in four states.<sup>2</sup> Its acquisition of TCI may make AT&amp;T a more viable residential competitor but it is not yet clear what services the new company will offer.</li> </ul>
MCI/WorldCom	<ul> <li>Although MCI maintains its existing residential service, it now "is focusing its efforts mainly on downtown, high-end customers."<sup>3</sup></li> <li>"WorldCom's stated strategy is to become a premier provider of the full array of communications services to business, government, and eventually residential endusers."<sup>4</sup></li> </ul>
Sprint	Sprint plans to offer bundled voice and data service via resale to residents by late-1999, but "the primary residential users will be those who already spend heavily on communications."
Bell Atlantic	Plans center on providing competitive service to independent territory in in-region states
GTE	"GTE says it will first aim for small businesses with one to 50 employees and 'highend' residential customers"
BellSouth	<ul> <li>Does not offer out-of-region residential wireline service (competes with GTE in-region).</li> </ul>
U S West	<ul> <li>U S West is splitting from its MediaOne affiliate, which provides residential service in Atlanta and Los Angeles.</li> <li>U S West still has CLEC approval in 27 states.</li> </ul>
Time Warner	"Even though Time Warner pegged itself as a company that would bring competition to the residential telephone market locally, it announced plans in 1996 to indefinitely postpone such ambitions."
Other CLECs	Most CLECs focus on business customers' data and voice needs.
Ouler CLECS	• "To date, the facilities-based model created by the early competitive local exchange carriers (CLECs) has primarily targeted business customers."
	and IXCs."9
	<ul> <li>"Neither NEXTLINK nor ICG is targeting the local residential market"</li> <li>Some cable-based and smaller CLECs are targeting high-end business customers.</li> </ul>
	<ul> <li>"Cedar Rapids, Iowa-based McLeodUSA also is going after small business, but it is one of the very few companies to pursue residential business as well;"  McLeod</li> </ul>
	traditionally has "been focused on business users."   "[e.spire] [is] one of the few companies that has been competing with BellSouth in Georgia for residential customers using local service; "13 nevertheless, "[t]he company's focus will be the business market, not residential customers"   "14

<sup>1</sup>Z. Schiller, TCG Begins Phone Service For Cleveland Business Customers, The Plain Dealer, Jan. 13, 1998, at 10C (quoting AT&T Chairman C. Michael Armstrong). <sup>2</sup> J. Keller, AT&T Network Allows Access to Local Calls, Wall Street Journal, June 9, 1998, at 1325. <sup>3</sup>M. Rockwell, Local Services Competition Isn't Hitting Home – AT&T's Acquisition of Teleport Reinforces Shift Towards Corporate Customers, Internet Week, Feb. 2, 1998, at T13. <sup>4</sup>New Paradigm Resources Group and Connecticut Research, The 1998 CLEC Report: Annual Report on Local Telecommunications Competition, at MFS-WorldCom – 2 (1998) ("Connecticut Research") (emphasis added). <sup>3</sup>E. Glanton, Sprint Plans Landmark Upgrade, Yahoo! News, Jun. 2, 1998. <sup>6</sup>J. Bounds, GTE Prepares to Invade Local Access Service Turf, Dallas Business Journal, Oct. 17, 1997, at 24 ("We think that across America, in this category, these customers are underserved," said Rick Crain, vice president of product development and marketing). <sup>7</sup>R. Sekhri, Time Warner Network May Carry Digital TV. Internet Local Upgrade Unlikely to Include Phone Service, Cincinnati Business Courier, Mar. 20, 1998, at 6. <sup>8</sup>M. Rockwell, Local Services Competition Isn't Hitting Home – AT&T's Acquisition of Teleporn Reinforces Shift Towards Corporate Customers, Internet Week, Feb. 2, 1998, at T13. <sup>8</sup>Connecticut Research at Intermedia – 2. <sup>10</sup>J. Clary, Fresh Face May Help BellSouth Dial Long Distance, Nashville Business Journal, Apr. 14, 1997, at 1. <sup>11</sup>A. Scmitt, Calling All Companies Local Phone Companies are Ready to Woo Customers in Business Arena, Chicago Daily Herald, Feb. 5, 1998, at 11. <sup>12</sup>E. Mooney, McLeod Plans Notes Sale to Fund Network Bailout, Radio Comm. Report, July 21, 1997, at 41. <sup>13</sup>M. Kannell, Today's Topic: Technology, Atlanta Constitution, Jan. 14, 1998, at 02B. <sup>14</sup>S. Schafer, Phone Provider Means Business, Tulsa World, June 12, 1997, at E1.

Company	Networks		Route <sup>2</sup>	П	Comments
• •	(Planned)	(Planned)	Miles (Planned)		
SBC/Ameritech	(30)	(63)	(3,000)		
AT&T/TCG/TCI	66 (8)	596	9,474		TCG's networks are concentrated in downtown business areas and sometimes extend to outlying business districts.  AT&T has minimal local networks, but it has equipped its 4E switches to provide Digital Link local service.  TCI is currently testing digital telephony over its HFC in West Hartford, CT and Arlington Heights, IL. Its viability as a local provider is dependent upon the development of Internet Telephony.
MCI/WorldCom	176 (12)	280	11,261	•	The networks of Brooks Fiber, MFS, MCI and WorldCom overlap in 29 cities.
Sprint .	(60)				Sprint will build its own broadband networks in 36 major marked in 1998 and 24 additional markets in 1999. These networks will allow Sprint ION to pass 70 percent of all large businesses nationwide. To serve small business and residential customers who may not have access to these networks, Sprint will lease broadband facilities, such as DSL, from other carriers. <sup>3</sup>
Bell Atlantic	0 (0)	0	0	•	Bell Atlantic has no public plans to offer competitive facilities- based local service out-of-region.
GTE	2 (0)	22	0	•	GTE operates as a CLEC only in those areas where it already ha extensive ILEC networks.
BellSouth	0 (0)	1	0	•	BellSouth BSE, a BellSouth subsidiary established for out-of- region local services, will initially resell local exchange services to business customers.
U S West	0 (0)	0	0 .	•	U S West has no public plans to offer competitive facilities-base local service.
Time Warner	17 (2)	22	5,321 (299)		
Intermedia	10 (0)	47	762	•	"Instead of building costly fiber-optic networksIntermedia focuses on switching technology."
ICG	19 (0)	51	3,021 (1,117)	•	ICG is partnering with utility companies to expand its networks and services. ICG's networks are deployed primarily in Western states.
McLeod	8 (3)	3	4,900 (2,000) <sup>5</sup>	•	McLeod has announced plans to complete 36 additional fiber rings and 2,000 more route miles in 1998. <sup>6</sup>
GST	36 (12)	36	5,107		
WinStar	24 (6)7	47	n/a	•	WinStar's network consists of broadband wireless circuits on the 38 GHz frequency.
ELI	5 (4)	10	2,087	•	ELI's networks are only in the western part of the United States.
e.spire	32 (1)	42	1,061	•	"[e.spire] has built an intercity broadband ATM network that allows the company to provide a wide variety of voice and data communications services at a reduced cost."
Hyperion	18 (3)	29	4,326		
NEXTLINK	15 (5)	32	1, <b>897</b> (237)		
MGC Communications	3 (15) <sup>9</sup>	50	n/a	•	MGC plans to build facilities in 18 markets by the end of 1999. It
Teligent	(30)11	26			Teligent plans to provide wireless broadband services at 24

'All switch figures are taken from the Bellcore LERG (July 1998) database. The LERG is based on information that is provided to Bellcore by incumbent and competitive local carriers. LERG switch counts do not always agree with counts from other sources, including public statements by the carriers themselves. Some of these discrepancies are due to the blurring of definitional lines between switching entities and rate centers. The bright line that once distinguished central office switches from other switching equipment has been fading as a new generation of remote switches and remote digital terminals (RDTs) have emerged with limited switching capabilities. Data shown here include all switches designated as "local" and as "CLEC" or "CAP" in the LERG. 'All figures from New Paradigm Resources Group and Connecticut Research, The 1998 CLEC Report: Annual Report on Local Telecommunications Competition, 9th ed. (1998) ("Connecticut Research"), unless otherwise noted. 'Sprint Press Release, Sprint Unveils Revolutionary Network, June 2, 1998. 'R. Krause, Switches Light Telecom Firm's Path, Investor's Business Daily, Apr. 15, 1998 at A9. 'McLeod Press Release, McLeodUSA Reports Continued Growth and Margin Improvement for First Quarter 1998. Apr. 29, 1998. 'Id 'WinStar Press Release, WinStar Adds "New CLEC Markets, May 7, 1998. 'Connecticut Research, at ACSI - 2. 'MGC Communications, Furman Selz Issues "Strong Buy" Recommendation on MGC, June 30, 1998, at http://www.mgccom.com/index-3news.html. 10 Id 11 Teligent Inc., at http://www.teligentinc.com/home.htm. 12 Id

Country	Local	Long Distance	International	Cellular	Cable
United States	1996	1978 (Execunet)	1982	Analog: duopoly Digital: open	1992: end of exclusive franchise 1996: telcos permitted
<b>Canada</b> Bell Canada privatized 1987	1994 1997: cable telephony	1992	U.S./Canada route open Oct. 1998: open (other traffic)	Analog: duopoly Digital: duopoly	1995 1998: telcos permitted
Japan NTT privatized 1985	1988	1987	. 1987	Analog: open Digital: open	1993
United Kingdom BT privatized 1984 (partial) to 1997 (full)	1991 1992: cable telephony	1984: duopoly 1996: open	1984: duopoly 1994: resale only 1996: open	Analog: open Digital: open	1980s
Germany DT privatized 1996	1998	1998	1998	Analog: monopoly Digital: open	Pre-1995
France FT privatized 1997	1998	1998: open	1998: open	Analog: duopoly Digital: open	Pre-1988
<b>Italy</b> Telecom Italia privatized 1997	1998	1998	1998	Analog: open Digital: duopoly	1996°
Spain Telefonica de Espana privatized 1992 (partial) to 1997 (full)	Dec. 1998	Dec. 1998	Dec. 1998	Analog: monopoly Digital: duopoly	1995°
Mexico Telmex privatized 1990	monopoly	1996	1996	Analog: duopoly	Pre-1988 <sup>e</sup>
Australia Telstra privatized 1991	1997	1991: duopoly 1997: open	1992	Analog: monopoly Digital: duopoly	1992
New Zealand TCNZ privatized 1990	1987	1989	1989	Analog: open Digital: open	1989
Other Privatizations	Verde Telecom (1995), Chil Telecom (1996), Gibraltar: Guyana: Guyana Telecom. (1990, 1991), Jamaica: TOJ Mongolian Telecom. Co. (1	le: ENTEL (1987), Czech Rej Gibraltar NYNEX Communic Corp. (1991), Hungary: MAT (1989, 1990), Korea: Korea 995), Netherlands: KPN (198	los External Telecom (1991), Belize: E public: SPT Telecom (1994), Denmark: eations (1989), Greece: OTE (1996), G AV (1993), Indonesia: PT Indosat (199 Telecom (1993, 1994, 1996), Latvia: L 194), Pakistan: Pak-Telecom (1994), Per rga Distancia (1992), Sao Tome: CST	: TeleDanmark (1994), Estonia: Ee uinea: SOTELGUI (1996), Guinea P4), PT Telkom (1995), Ireland: Tel Lattelkom (1994), Malaysia: Teleko u: Telefonica de Peru (1994, 1996)	sti Telpfon (1993), Ghana: Ghana -Bissau: Guine Telecom (1989), lecom Eireann (1996), Israel: Bez m Malaysia (1990, 1993), Mongo ), Portugal: Portugal Telecom
WTO Agreement	On February 15, 1997, 69 c companies. Each participal liberalization and infrastruc	ing country committed to var ture. Signatories of the WT	eement to open their markets for all barying foreign ownership restrictions an O, in addition to those profiled in this times, Poland, Singapore, South Africa,	d to a different schedule of implem able, include: Argentina, Chile, H	entation based on its current leve ungary, Iceland, India, indonesia